

PEREL'MAN, F.M., doktor khim.nauk

Character of interaction and the properties of matter. Priroda 54  
no.10:52-55 '65. (MIRA 18:1C)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova  
AN SSSR, Moskva.

PEREL'MAN, Fanya Moiseyevna; DRAGUNSKAYA, D.Ye., red.

[Representation of chemical systems with any number of components] Izobrazhenie khimicheskikh sistem s liubym chislom komponentov. Moskva, Nauka, 1965. 98 p.  
(MIRA 18:5)

PERELMAN, F.M. et al. Moscow, Russia

Multidimensional geometry and topology, irinova 54 no. 1:35-47  
Ju 1965. (MIR 1965)

1. Institut chistoy i neorganicheskoy khimii im. N.S. Kurnakova  
AN SSSR, Moscow.

VERKHOVSKAYA, A.K.; PEREL'MAN, F.M.

Decomposition of hydrogen peroxide on mixed catalysts from  
cobalt, copper, and tungsten salts. Zhur. fiz. khim. 38  
no.4:1013-1015 Ap '64. (MIRA 17:6)

1. Institut obshchey i neorganicheskoy khimii AN SSSR i Kurganskiy  
pedagogicheskiy institut.

L 15622-65 EWT(m)/EXP(t)/EXP(b) IJP(c)/ASD(f)-2 RDW/JD/JG  
ACCESSION NR: AP5000137 S/0026/64/000/011/0117/0118

AUTHOR: Pereł'man, F. N. (Doctor of chemical sciences) (Moscow)

TITLE: Gallium compounds

SOURCE: 27-53- Priroda, no. 11, 1964, 117-118

TOPIC TAGS: gallium, gallium compound, gallium sulfide, high temperature lubricant, gallium sulfide selenide lubricant

ABSTRACT: At a colloquium, T. B. Kuvshinova, a worker at I. V. Tanaev's laboratory at the Institute of General and Inorganic Chemistry, AN SSSR, discussed studies of gallium compounds performed at the laboratory. Some of these compounds have already been described in the literature; others were obtained for the first time. In all cases, new preparative methods have been found, and new previously unknown properties have been established. One example is gallium sulfide, GaS. The hexagonal lattice of GaS is similar to that of graphite, and the crystals are lamellar. The properties discovered suggest that GaS may be a promising new high-temperature lubricant.

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L 11622-65  
ACCESSION NR: AP5000137

Another gallium sulfide of interest is  $\text{Ga}_4\text{S}_5$ . X-ray analysis indicates that it is an individual compound.  $\text{Ga}_3\text{S}_3\text{Se}$ , which is obtained by treating  $\text{GaS}$  with hydrogen selenide, is also an individual compound. Similarly, gallium compounds in which selenium is bound simultaneously to gallium and neodymium were prepared.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: IC, GC

NO REF SOV: 000 OTHER: 000 ATD PRESS: 3147

Cord - 2/2

ACCESSION NR: AP4034590

S/0076/64/038/004/1013/1015

AUTHORS: Verkhovskaya, A. K.; Perel'man, F. M.

TITLE: Decomposition of hydrogen peroxide, catalyzed by mixed salts  
of cobalt, copper and tungsten

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 4, 1964, 1013-1015

TOPIC TAGS: catalysis, hydrogen peroxide decomposition, hydrogen  
peroxide, cobalt chloride, cupric chloride, sodium tungstate,  
kinetics, rate constant

ABSTRACT: The purpose of this work was to investigate the catalytic effectiveness of sodium tungstate in the presence of salts of cobalt and copper on the kinetics of the decomposition of  $H_2O_2$ . The experiments were conducted with mixed catalysts of the system:  $Na_2WO_4^-$ ,  $CoCl_2$ - $CuCl_2$  at  $25 \pm 0.10$  and  $pH = 7.0$ . The solutions were buffered. The rate constants were calculated for the first order reaction on the basis of the volumes of liberated oxygen in definite time intervals from the beginning of this process. It was found that  $Na_2WO_4^-$  displays a very small catalytic activity. However, its activity is

Cord 1/2

L17012-63EWP(q)/EWT(m)/BDS AFFTC/ASD JD  
S/078/63/008/005/015/021AUTHOR: Perel'man, P. M. and Fedoseyeva, Ye. I.55  
54TITLE: Yttrium chromates in a Y(NO<sub>3</sub>)<sub>3</sub>-K<sub>2</sub>CrO<sub>4</sub>-H<sub>2</sub>O systemPERIODICAL: Zhurnal neorganicheskoy khimii, v. VIII, No. 5, May 1963,  
1255-1258

TEXT: The subject of this study was the nature, composition and solubility of chromates formed in a Y(NO<sub>3</sub>)<sub>3</sub>-K<sub>2</sub>CrO<sub>4</sub>-H<sub>2</sub>O system at 25°. The authors discovered that with mixing of dilute aqueous solutions of yttrium nitrate and potassium chromate, depending upon the proportion of the components, double chromates of two types crystallize out: an orange salt of composition Y<sub>2</sub>(CrO<sub>4</sub>)<sub>3</sub> · K<sub>2</sub>CrO<sub>4</sub> · nH<sub>2</sub>O (where n is close to 6), and a yellow salt which is evidently a phase of variable composition between Y<sub>2</sub>(CrO<sub>4</sub>)<sub>3</sub> · 3K<sub>2</sub>CrO<sub>4</sub> · nH<sub>2</sub>O and Y<sub>2</sub>(CrO<sub>4</sub>)<sub>3</sub> · 4K<sub>2</sub>CrO<sub>4</sub> · nH<sub>2</sub>O.

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L1'012-63

S/078/63/008/005/015/021

Yttrium chromates in a  $\text{Y}(\text{NO}_3)_3$  - .....

They conclude further that the normal yttrium chromate --- of composition  $\text{Y}_2(\text{CrO}_4)_3 \cdot 12\text{H}_2\text{O}$ --- is not formed under the conditions of the experiment. It may be synthesized directly from freshly precipitated moist yttrium hydroxide and chromic anhydride by combination in an aqueous solution with subsequent evaporation of excess water at room temperature. There are 2 tables and 2 figures.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova,  
Akademii nauk SSSR (Institute for General and Inorganic  
Chemistry, im. N. S. Kurnakov, USSR Academy of Sciences)

SUBMITTED: Sept. 6, 1962

Card 2/2

KAROV, Z.G.; PEREL'MAN, F.M.

Physicochemical investigation of the system  $\text{NaNO}_3\text{-Na}_2\text{MoO}_4\text{-H}_2\text{O}$ .  
Uch. zap. Kab.-Balk. gos. un. no.12:261-275 '62.  
(MIRA 16:6)

(Sodium nitrate)  
(Sodium molybdates)

PEREL'MAN, F.M.; PODOSEYEVA, Ye.I.

Yttrium chromates in the system  $Y(NO_3)_3 - K_2CrO_4 - H_2O$ . Zhur.-  
neorg.khim. 8 no.5:1255-1258 My '63. (MIRA 16:5)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova  
AN SSSR.  
(Yttrium nitrate) (Potassium chromate)

KAROV, Z.G.; PEREL'MAN, F.M.

Physicochemical properties of solvents of the system  $(\text{NH}_4)_2\text{MoO}_4-$   
 $\text{NH}_4\text{NO}_3 - \text{H}_2\text{O}$  at 25°C. Zhur.neorg.khim. 7 no.10:2450-2458 0 '62.  
(MIRA 15:10)

1. Kabardino-Baklarskiy gosudarstvennyy universitet i Institut  
obshchey i neorganicheskoy khimii imeni Kurnakova.  
(Ammonium molybdate) (Ammonium nitrate) (Solubility)

I. 13499-63

EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG

ACCESSION NR: AP3003485

S/0078/63/008/007/1753/1755

AUTHOR: Perel'man, F. M.; Zvorykin, A. Ya.; Demina, G. A.59  
58TITLE: Solubility isotherm ( $25^{\circ}$ ) in the system  $\text{Nd}(\text{NO}_3)_3$  sub 3 -  $\text{RbNO}_3$  sub 3 -  $\text{HNO}_3$  sub 3 -  $\text{H}_2\text{O}$  20

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 7, 1963, 1753-1755

TOPIC TAGS: solubility, isotherm,  $\text{HNO}_3$  sub 3, rubidium nitrate, neodymium nitrate, praseodymium nitrateABSTRACT: The authors studied the quaternary system  $\text{Nd}(\text{NO}_3)_3$  sub 3 -  $\text{RbNO}_3$  sub 3 -  $\text{HNO}_3$  sub 3 -  $\text{H}_2\text{O}$  at  $25^{\circ}$  in an interval of 25 - 35%  $\text{HNO}_3$  sub 3 by the solubility method. It was found that two double salts of the composition  $4\text{Nd}(\text{NO}_3)_3$  sub 3 times  $5\text{RbNO}_3$  sub 3 and  $2\text{Nd}(\text{NO}_3)_3$  sub 3 times  $7.5\text{RbNO}_3$  sub 3 are formed in this system. The differences in the properties of nitric acid solutions of neodymium and praseodymium nitrates in the presence of rubidium nitrate were shown. Orig. art. has: 2 figures and 1 table.

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Association: Inst. of General and Inorganic Chemistry

Card 1/2

PEREL'MAN, F.M.; BABIYEVSKAYA, I.Z.

Solubility isotherm (25°) for the system  $\text{Y}(\text{NO}_3)_3 - \text{NH}_4\text{NO}_2 - \text{HNO}_3 - \text{H}_2\text{O}$ . Zhur.neorg.khim. 7 no.6:1479-1481 Je '62.  
(MIRA 15:6)  
1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova,  
Akademii nauk SSSR. (Yttrium nitrates) (Solubility)

PEREL'MAN, F.M.; ZVORYKIN, A.Ya.; DEMINA, G.A.

Solubility isotherm of the system  $\text{Pr}(\text{NO}_3)_3 - \text{RbNO}_3 - \text{H}_2\text{O}$ . Zhur.  
neorg.khim. 7 no.3:641-644 Mr '62. (MIRA 15:3)  
(Praseodymium nitrate) (Rubidium nitrate)  
(Systems (Chemistry))

PEREL'MAN, F.M.

Prognosis of approximate melting points of certain alloys in the  
systems Ni - Ti - Cr - Mo - W - Nb. Zhur.neorg.khim. 7 no.4:  
844-849 Ap '62. (MIRA 15:4)  
(Alloys) (Systems (Chemistry)) (Melting points)

PEREL'MAN, F.M.

Calculated solubility isotherms in eutonic-type systems. Zhur.-  
neorg.khim. 7 no.4:896-899 Ap '62. (MIRA 15:4)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova  
AN SSSR.  
(Systems (Chemistry)) (Salts) (Solubility)

PEREL'MAN, F.M.

Optimal projections for the presentation of simple and reciprocal  
systems with an arbitrary number of components. Zhur.neorg.khim.  
7 no.4:900-902 Ap '62. (MIRA 15:4)  
(Systems (Chemistry))

S/078/62/007/007/010/013  
B117/B101

AUTHORS: Perel'man, F. M., Dolinina, R. M.

TITLE: Isotherms of solubility ( $50^{\circ}\text{C}$ ) and of viscosity for the system LiI - LiBr -  $\text{H}_2\text{O}$

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 7, 1962, 1681 - 1684

TEXT: The authors were the first to study the system LiI - LiBr -  $\text{H}_2\text{O}$  at  $50^{\circ}\text{C}$  by physicochemical analysis methods. The solubility isotherm was found to consist of two branches joining at the eutectic point of the composition LiI 41.95% and LiBr 27.62%. No chemical compounds and solid solutions were found in the system. The isotherms of the specific gravity and viscosity were similar to the above. In the eutectic point, the specific gravity was 2.025 and the viscosity 6.877 cp. All solutions saturated with lithium iodide were red-brown. 0.12 - 0.13% free iodine were found near the eutectic point. There are 2 figures and 2 tables.

Card 1/2

PEREL'MAN, F.M.; ZVORYKIN, A.Ya.; TARASOV, V.V.; DEMINA, G.A.

Thio salts of molybdenum and tungsten. Zhur.neorg.khim. 6 no.9:  
1999-2002 S '61. (NIRA 14:9)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova  
AN SSSR. (Molybdates) (Tungstates) (Systems (Chemistry))

PEREL'MAN, F.M.; KAROV, Z.G.

Experimental and theoretically calculated solubility isotherm ( $25^{\circ}$ )  
of the system  $K_2MoO_4 - K_2SO_4 - H_2O$ . Zhur.neorg.khim. 6 no.6:  
1431-1435 Je '61. (MIRA 14:11)

1. Institut obshchey i neorganicheskoy khimii AN SSSR i Kabardino-  
Balkarskiy gosudarstvennyy universitet.  
(Potassium molybdate) (Potassium sulfate) (Solubility)

ZVORYKIN, A.Ya.; PEREL'MAN, F.M.; TARASOV, V.V.

Molybdenum and tungsten sulfides and oxysulfides. Zhur.neorg.khim.  
(MIRA 14:9)  
6 no.9:1994-1998 S '61.

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova  
Akademii nauk SSSR.  
(Molybdenum sulfide) (Oxysulfides)

34866

S/078/62/007/003/012/019

B110/B138

52600

AUTHORS:

Perel'man, F. M., Zvorykin, A. Ya., Demina, G. A.

TITLE:

The solubility isotherm (25°C) of the system  
 $\text{Pr}(\text{NO}_3)_3\text{-RbNO}_3\text{-HNO}_3\text{-H}_2\text{O}$ 

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 3, 1962, 641 - 644

TEXT: The formation of double nitrates of praseodymium and rubidium in the presence of  $\text{HNO}_3$  was examined in a thermostat (25 ± 0.1°C). Liquid phase samples and residues were taken after the establishment of equilibrium (after 2 - 3 days). Chemically pure  $\text{Pr}_{6}\text{O}_{11}$  and  $\text{Rb}_2\text{CO}_3$  were converted into  $\text{Pr}(\text{NO}_3)_3\cdot 6\text{H}_2\text{O}$  ( $\text{Pr}_{6}\text{O}_{11}$ , 40.96%) and into rubidium nitrate ( $\text{Rb}_2\text{O}$ , 62.66%) by means of  $\text{HNO}_3$ . Pr was precipitated by means of  $\text{NH}_4\text{OH}$ , annealed, and weighed as  $\text{Pr}_{6}\text{O}_{11}$ . Rb was weighed as perchlorate. Five solid phases were formed: (1)  $\text{Pr}(\text{NO}_3)_3$ ; (2)  $5\text{RbNO}_3\cdot 4\text{Pr}(\text{NO}_3)_3$ ; (3)  $7\text{RbNO}_3\cdot 5\text{Pr}(\text{NO}_3)_3$ ; (4)  $5\text{RbNO}_3\cdot 2\text{Pr}(\text{NO}_3)_3$ ; (5)  $\text{RbNO}_3$ . The compositions next

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The solubility isotherm...

S/078/62/007/003/012/019  
B110/B138

to  $\text{RbNO}_3$  were examined at 30 - 36%, and those adjoining  $\text{Pr}(\text{NO}_3)_3$  at 26 - 30% of  $\text{HNO}_3$ . The incongruent double salt  $2\text{Pr}(\text{NO}_3)_3 \cdot 5\text{RbNO}_3$  only exists with  $\text{Pr}(\text{NO}_3)_3$  concentration less than 10.09%. If the  $\text{Pr}(\text{NO}_3)_3$  concentration is increased,  $5\text{Pr}(\text{NO}_3)_3 \cdot 7\text{RbNO}_3$  crystallizes. Anhydrous  $\text{Pr}(\text{NO}_3)_3$  crystallizes first and next, in the presence of not more than 3 - 4% of  $\text{RbNO}_3$ , the double salt  $5\text{RbNO}_3 \cdot 4\text{Pr}(\text{NO}_3)_3$ . However, only three salts could be synthesized: (1) anhydrous  $\text{Pr}(\text{NO}_3)_3$  under the conditions of point 2 (Fig. 1); (2) the anhydrous, bright green, coarse-crystalline double salt  $4\text{Pr}(\text{NO}_3)_3 \cdot 5\text{Rb}(\text{NO}_3)_3$  under the conditions of point 6; (3) the anhydrous, light green, fine crystalline double salt  $2\text{Pr}(\text{NO}_3)_3 \cdot 5\text{RbNO}_3$  under the conditions of point 18. All three salts decompose at 85 - 90°C with the liberation of dark-brown vapors of oxides of nitrogen.

D. I. Mendeleev and N. S. Kurnakov are mentioned. There are 2 figures, 1 table, and 4 references: 3 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: R. C. Vickery,

Card 2/3

32489  
S/078/62/007/004/008/016  
B101/B144

18.1200

AUTHOR: Ferel'man, F. M.

TITLE: Attempts to prognosticate the approximate melting temperature of some alloys of the system Ni - Ti - Cr - Mo - W - Nb

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 4, 1962, 844-849

TEXT: The possibility to predict the melting point of multicomponent alloys by plotting fusibility diagrams based on the data for binary and ternary systems is shown. The following assumptions must hold: (1) The multicomponent systems contain no other phases than the binary and ternary systems; (2) addition of new components increases the reciprocal solubility of the metals and changes linearly the melting point and the properties of the multicomponent systems. Reference fusibility diagrams (Fig. 3-6) were plotted on the basis of the data for the systems: Ni - Mo; Ni - Cr; Ni - W; Ni - Nb; Ni - Ti; Mo - Cr; Mo - W; Mo - Nb; Mo - Ti; Ti - Cr; Ti - W; Ti - Nb; Ni - Mo - Cr; Ni - Mo - W; Ni - Mo - Nb; Ni - Mo - Ti; Ti - Mo - Cr; Ti - Mo - W, and Ti - Mo - Nb. The melting points of the alloys 65% Ni + 15% Cr + 5% Mo + 5% Ti + 7% W + 3% Nb (I); 70% Ni + 10% Cr + 5% Mo + 5% Ti + 7% W + 3% Nb (II);  
Card 1/3

S/078/62/007/004/008/016  
B101/B144

Attempts to prognosticate ...

75% Ti + 5% Mo + 5% W + 10% Cr + 2% Ni + 3% Nb (III); and 80% Ti + 3% Mo + 7% Cr + 5% W + 3% Nb + 2% Ni (IV) were estimated from the diagrams, and the melting points of the Ni alloys were experimentally checked. It was found: alloy I m.p. 1371°C according to the Fig. 3, m.p. 1363°C according to Fig. 5, experimentally found m.p. 1356°C; alloy II m.p. 1376°C according to the diagrams, experimentally found 1350°C. Alloy III has m.p. 1756°C, and alloy IV has m.p. 1757°C according to the diagrams. The melting point of the titanium alloys can be increased by increasing the content of W and Nb at the expense of the Ni and Cr content. There are 6 figures.

SUBMITTED: February 20, 1961

Fig. 3. Fusibility diagram of nickel and molybdenum alloys of the six-component system: (a) Ni - Mo - Cr (I); and Ni - Mo - W (II); (b) Ni - Mo - Nb (I); and Ni - Mo - Ti (II).

Fig. 4. Fusibility diagram of titanium and molybdenum alloys of the six-component system: (a) Ti - Mo - Cr; and Ti - Mo - W (II); (b) Ti - Mo - Nb (I); and Ti - Mo - Ni (II).

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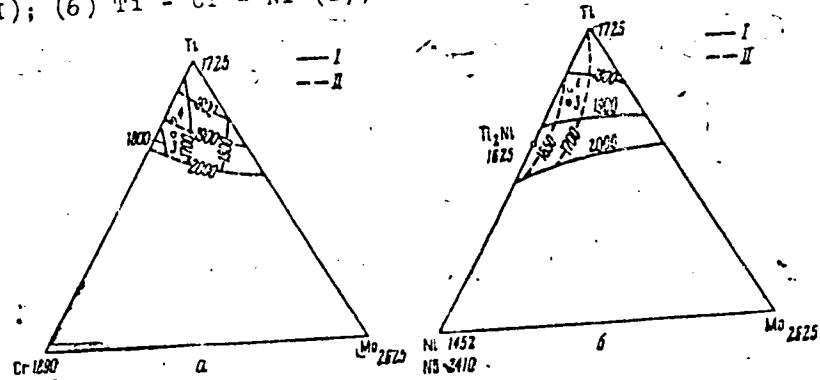
S/076/62/007/C04/C06/C16  
B101/B144

Attempts to prognosticate ...

Fig. 5. Fusibility diagram of nickel and chromium alloys of the six-component system: (a) Ni - Cr - Mo (I); and Ni - Cr - W (II); (6') Ni - Cr - Ti (I); Ni - Cr - Nb (II); boundary of the solid Ni solutions (III).

Fig. 6. Fusibility diagram of titanium and chromium alloys of the six-component system: (a) Ti - Cr - Mo (I); Ti - Cr - W (II); boundary of solid solutions (III); (6) Ti - Cr - Ni (I); and Ti - Cr - Nb (II).

Fig. 3



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KAROV, Z.G.; PEREL'MAN, E.M.

Physicochemical properties of the system ammonium molybdate -  
ammonium chloride - water. Zhur. neorg. khim. 5 no.3:713-719  
Mr '60. (MIRA 14:6)

1. Kabardino-Balkarskiy gosudarstvennyy universitet, i Institut  
obshchey i neorganicheskoy khimii im. N. S. Kurnakova AN SSSR.  
(Ammonium molybdate)  
(Ammonium chloride)

KAROV, Z.G.; PEREL'MAN, F.M., dr. khimicheskikh nauk; VASECHKO, R.F.

Solubility and some other physical and chemical properties of  
the  $K_2SO_4$ -- $K_2MoO_4$ -- $H_2O$  system at 25°C. Uch. zap. Kab.-Balk. gos.  
un. no.10:237-246 '61. (MIRA 17:6)

1. Starshiy prepodavatel' Kabardino-Balkarskogo gosudarstvennogo  
universiteta.

PEREL'MAN, F.M.; DEMINA, G.A.

The system  $\text{Y}(\text{NO}_3)_3$  -  $\text{RbNO}_3$  -  $\text{HNO}_3$  -  $\text{H}_2\text{O}$  at  $25^\circ$ . Zhur.  
neorg. khim. 9 no.7:1772-1773 J1 '64. (MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.  
Kurnakova AN SSSR.

~~PIRKEL'MAN, F.Ya.; FILATOV, V.V.~~

Movable pumping equipment for seasonal pastures. Trakt. i sel'khormash.  
no.11:37-39 N '58. (MTRA 11:11)  
(Pumping machinery) (Cattle--Watering)

PEREL'MAN, F.Ya.; FILATOV, V.V.

Mobile water-pumping unit for seasonal pastures. Biul.tekh.-ekon.  
inform no.5:60-62 '58. (MIRA 11:7)  
(Pumping machinery)

MYAGKOV, Vasiliy Dmitriyevich; PEREL'MAN, G.B., inzh., retsenzert;  
SHNAYDER, A.M., inzh., retsenzert; RUNICH, K.N., inzh., red.;  
ONISHCHENKO, R.N., red. izd-va; SHCHETININA, L.V., tekhn. red.

[Brief manual for machinery designers] Kratkii spravochnik  
konstruktora. Moskva, Mashgiz, 1961. 543 p. (MIRA 15:2)  
(Machinery—Design)

5449  
S/103/62/023/003/004/016  
D201/D301

16.8070 (1031,1132,1329)

AUTHOR: Perel'man, I.I. (Moscow)

TITLE: The self-adapting program as a means of obtaining a required reaction at the output of a linear dynamic controlled object

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 3, 1962,  
312 - 320

TEXT: The author considers one of the possible methods of designing an automatic control system which is 'taught' the reproduction of a given reaction at the output of the linear controlled dynamic object, described by the operator

$$\Psi(p) = Z(p) e^{-p\tau} y(p) \quad (4)$$

where  $y(p)$  and  $\Psi(p)$  - represent the input and output signals respectively,  $Z(p)$  is a rational fractional function of  $p$  (unknown in the most general case), all poles of which lie to the left of the imaginary axis,  $\tau$  - is a given delay. It is assumed that the information on the occurrence of every working period  $t_n$  can be had  $\tau$

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The self-adapting program as a ...

S/103/62/023/003/004/016  
D201/D301

then  $h(1) \rightarrow 0$  and condition (21) may always be satisfied by having a small enough positive  $k$ . For small values of  $k$  the speed of producing the program, however, becomes slower. The max. speed is obtained for  $kh(1) = 1$ , when the process terminates over  $M$  cycles. With noise present in any channel  $Kh(1)$  should be made less than 1. Some experimental results are given, obtained when simulating the process of self-adapting programming. There is 1 table, 4 figures and 2 Soviet-bloc references.

SUBMITTED: September 18, 1961

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Card 3/3

PEREL'IN, Il'ia Iakovlevich

1-74- Progress in the electrification of the country Moskva, Moskovskii i zemli, 1930. 63 p.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240010011-1

PENEL'IN, Il'is Iakovlevich

197. - Electrification in the USSR. Moscow, Gos. Sots.-tekhn. Izd-vo, 1974.  
152 p. (50-46329)

HD9685.E8P4

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240010011-1"

I-8515-65 ENT(d)/EPF(n)-2 Po-4/Pg-4/Pu-4/Pk-4/PI-4 IJP(c)/AIDC(a)/  
AFM/C/AFETR/ACD(a)-5/ASD(d)/SSD/AFIC(p)/ESD(dp) MM/BC  
ACCESSION NR: AP4045341 S/0103/64/025/009/1273/1284

AUTHCR: Poral'man, I. I.

TITLE: Optimization of control based on the maximum likelihood criterion.

Part 2

SOURCE: Avtomatika i telemekhanika, v. 25, no. 9, 1964, 1273-1284

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory, optimized control system.

ABSTRACT: An optimum control algorithm suggested in Part 1 (Avtom. i telemekhanika, v. 24, no. 10, 1963) is applied to an extremum control system of an inertialess plant. The plant has  $m_1 + 1$  inputs of which  $m_2$  are controlled (see Enclosure 1). The plant equation is represented by a quadratic form of input variables:

$$\Phi(t, t') = \sum_{\mu=1}^{m_1+1} A_{\mu}(t) \chi_{\mu}(t, t') \times \chi_{\mu}(t, t') + s_{m+1}(t, t') + s_{m+2}(t')$$

cont 1/3

8515-63

ACCESSION NR: AP4045341

where  $x_i(t, t') = z_i(t') + w_i(t') + z_i(t, t')$  ( $i = \mu, v$ );  $w_i(t')$  is the stochastic process with specified statistical characteristics;  $z_i(t, t')$  is a power series of argument  $t-t'$  with unknown parameters  $a_{i\lambda}(t)$  and a specified number of terms  $\lambda$ :

$z_i(t, t') = \sum_{\lambda=0}^{\lambda} a_{i\lambda}(t)(t-t')^\lambda$ ; the unknown plant parameters  $A_{\mu\nu}(t)$  ( $A_{\mu\nu}(t) = A_{\nu\mu}(t)$ ) and  $a_{i\lambda}(t)$  form the vector of unknown parameters  $\theta(t)$  ( $\theta_1(t), \theta_2(t), \dots, \theta_N(t)$ ). The search process is considered, as well as the case of normal weak noise. It is shown that the functional scheme of a controller based on an approximate likelihood function must include a "shaping device" (a function generator) and two computers. Orig. art. has: 3 figures and 54 formulas.

ASSOCIATION: none

ENCL: 01

SUBMITTED: 05Apr63

OTHER: 000

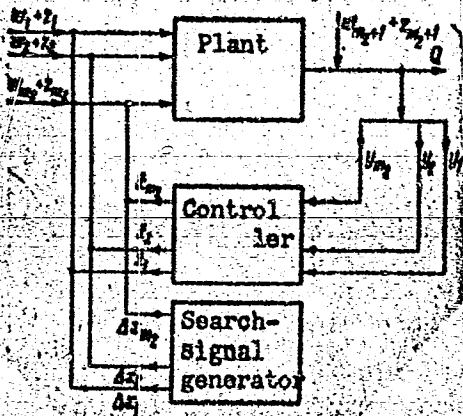
SUB CODE: IE

NO REF SOV: 001

L 0515-65

ACCESSION NO: AP4045541

ENCLOSURE 1



A control scheme based on the maximum likelihood criterion

Card 3/3

63192-65 EWT d)/EPF(n)-2/EWP(1) IJP(c) WW/BC  
ACCESSION NR: AP5015908 UR/0103/65/026/006/1051/1052  
62 - 505.32

AUTHOR: Perelman, I. I. (Moscow)

TITLE: Investigation of steady-state conditions in the simplest extremal systems  
with noise and drifting plant characteristics

SOURCE: Avtomatika i telemekhanika, v. 26, no. 6, 1965, 1051-1062

TOPIC TAGS: extremal automatic control, automatic control, automatic control  
design, automatic control system, automatic control theory

ABSTRACT: A method of grapho-analytical calculation of the statistical  
characteristics of the simplest sampled-data extremal system is presented.  
Originally suggested for determining stationary conditions in statistical relay  
automata, the method deals with the steady-state operating conditions, random  
noise at the output of an inertialess plant, and a horizontal constant-rate drift of  
the sought extremum. The plant is described by these equations:

Card 1/2

63192-65

ACCESSION NR: AP5015908

$$\begin{aligned}y(j) &= f[x(j)], \\v(j) &= y(j) + w(j), \\x(j) &= u(j) + \omega(j) + w'(j),\end{aligned}$$

where  $y(j)$  and  $x(j)$  are the output and input variables, respectively,  $f(x)$  is the nonlinear plant characteristic,  $w(j)$  and  $w'(j)$  are the plant output and input additive noise,  $v(j)$  is the measured plant output,  $u(j)$  is the control signal,  $\omega(j)$  is the search signal. With some simplifying assumptions regarding the plant characteristics, and assuming that both operating and search steps are large as compared to the drift rate, it is proven, among other things, that the system control is a random Markov process. Orig. art. has: 2 figures and 70 formulas.

ASSOCIATION: none

SUBMITTED: 12 Mar 64

ENCL: 00

SUB CODE: DP, IE

NO REFL SOV: 004

OTHER: 000

ML  
Card 2/2

L 07212-67 EWI(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) CD  
ACC NR: AT6022691 SOURCE CODE: UR/0000/66/000/000/0249/0257

AUTHOR: Perel'man, I. I.

37

E+1

ORG: none

TITLE: Optimization of the process of extremum search based on generalized criterion of similitude maximum.

SOURCE: Moscow. Institut avtomatiki i telemekhaniki. Samoobuchayushchiyesya avtomaticheskiye sistemy (Self-instructing automatic systems). Moscow, Izd-vo Nauka, 1966, 249-257

TOPIC TAGS: statistic method, optimal automatic control, self organizing system

ABSTRACT: This report proposes a more general mathematical statistical method than those currently used to optimize the process of extremum search by optimizing the control by the method of similitude maximum. This generalized method uses observations of the controlled plant for simultaneously finding unknown parameters of the plant itself and the distributive laws applied to the object of rapidly changing perturbations. In this case establishment of optimum control requires certain qualitative a priori information, and there is no need for numerical statistical characteristics. Examples are given of using the proposed control method for optimizing the search for the extremum of the output coordinate of a noninertial extremum regulation plant. Optimum control is effected by a) choosing model equations in the form of

Card 1/3

L 07210-67

ACC NR: AT6022691

$$y_{kn} = y_k(n, X_n, W_n, 0), \quad (1)$$

$$f(T_n, \omega, n), \quad (2)$$

b) by using these equations and matrix data obtained at moment  $\underline{n}$  to give similitude function

$$G(n, 0, \omega) = f(Y_n = \tilde{Y}_n / \tilde{X}_n, 0, \omega), \quad (3)$$

c) by taking  $\tilde{\theta}_n$  and  $\tilde{x}_n$  as parameters to find

$$y_{k,n+1} = y_k(n+1, \tilde{X}_n, \tilde{\theta}_n, W_{n+1}, x_{n+1}) = \tilde{y}_k(x_{n+1}, W_{n+1}) (k = 1 \div m_1), \quad (4)$$

$$\tilde{e}_{k,n+1}^* = e_{k,n+1}^*(x_{n+1}, W_{n+1}) = u_{k,n+1} - y_k(x_{n+1}, W_{n+1}) (k = 1 \div m_2), \quad (5)$$

and d) by defining  $x_{n+1}^*$  to give desired optimum function  $\tilde{F}_k(x_{n+1})$  when  $k = 1$  to  $m_2$ . The method described is applied to a noninertial object of  $\underline{m}$  inputs  $q_1, q_2, \dots, q_m$  and one output  $Q$ . This object is described at moment  $\underline{t}$  by

$$Q(t) = Q(t, q(t)); \quad q(t) = \{q_1(t), q_2(t), \dots, q_m(t)\}. \quad (6)$$

Card 2/3

L 07210-67

ACC NR: AT6022691

Since  $Q(t)$  and the laws of noise distribution are not given a model of the object must be constructed on rather general speculative assumptions to effect control. Orig. art. has: 32 formulas.

SUB CODE: 09,12/ SUBM DATE: 02Mar66/ ORIG REF: 001.

Cord 3/3 *THW*

PEREL' MAN, I.L.

Fuel Abstracts

Vol. XV, No.2

Feb. 1954

Steam Raising

and Steam Engine

✓ 1455. STEAM-WATER JET CLEANING OF BOILER HEATING SURFACES.

Perelman, I.L. ✓ (Elect. Sta. (Pwr Sta., Moscow), Feb. 1953, vol. 23, 15-39).

A method for countering clinkering in boiler furnaces involves a steam-water

jet from which superheated water is projected in small particles at a

temperature of 100°C at an initial speed of 300-600 m/s onto the clinkered

boiling surfaces. Good results have been obtained with periodic use.

B.E.A.

PEREL'MAN, I. L.

1956. PLOT FLOWING EQUIPMENT FOR STEAM BOILER IS IN SUPERHEATED WATER.  
COHODOVICHNE TEO (TVA PAROVYKH KOTLOV NA PERELEMIN VYER). Perel'man, I. L.  
(Moscow: Gosizdat, 1956, 95p.). abstr. in Teploenergetika (heat eng.)  
Engng. Moscow, Mar. 1957, 64).

PEREL'MAN, I. L. ENG.

Furances

Blasting the heating surfaces of furnaces with a steam-water jet. Elek. s'a. 23 No. 2,  
1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

PEREL'MAN, I.L.

Blowing-through a Schmichow-Berlin boiler type A-3. Energetik 1 no. 3:33-34  
(MLR 6:8)  
Ag '53. (Steam boilers)

PEREL'MAN, Il'ya Lazarevich; PLAKSERMAN, Yu.N., redaktor; LARIOHOV, G.Ye.,  
tekhnicheskiy redaktor

[Blowdown mountings using superheated water in steam boilers]  
Obduvochnye ustroistva parovykh kotlov na peregretoi vode. Moskva,  
Gos. energ. izd-vo, 1956. 94 p.  
(MIRA 10:1)  
(Boilers--Accessories)

PEREL'MAN, I. M.

PEREL'MAN, I.M., kandidat meditsinskikh nauk (g.Pechora, Komi ASSR)

Intra-arterial dionin-novocain dilation in the treatment of  
endarteritis obliterans. Klin.med. 35 no.3:148-151 Mr '57.  
(MLRA 10:7)

1. Is nevrologicheskogo otdeleniya (zav. I.M.Perel'man) Zhelezno-  
dorozhnoy Ob'yedinennoy bol'nitsy No.1 st. Pechora (nach. V.A.  
Plisov).

(ARTERIOSCLEROSIS OBLITERANS, ther.

ethylmorphine & procaine, intra-arterial admin. (Rus))

(ETHYLMORPHINE, ther. use

arteriosclerosis obliterans, with procaine, intra-  
arterial admin. (Rus))

(PROCAINE, ther. use

arteriosclerosis obliterans, with ethylmorphine, intra-  
arterial admin. (Rus))

11 Q.C.R.

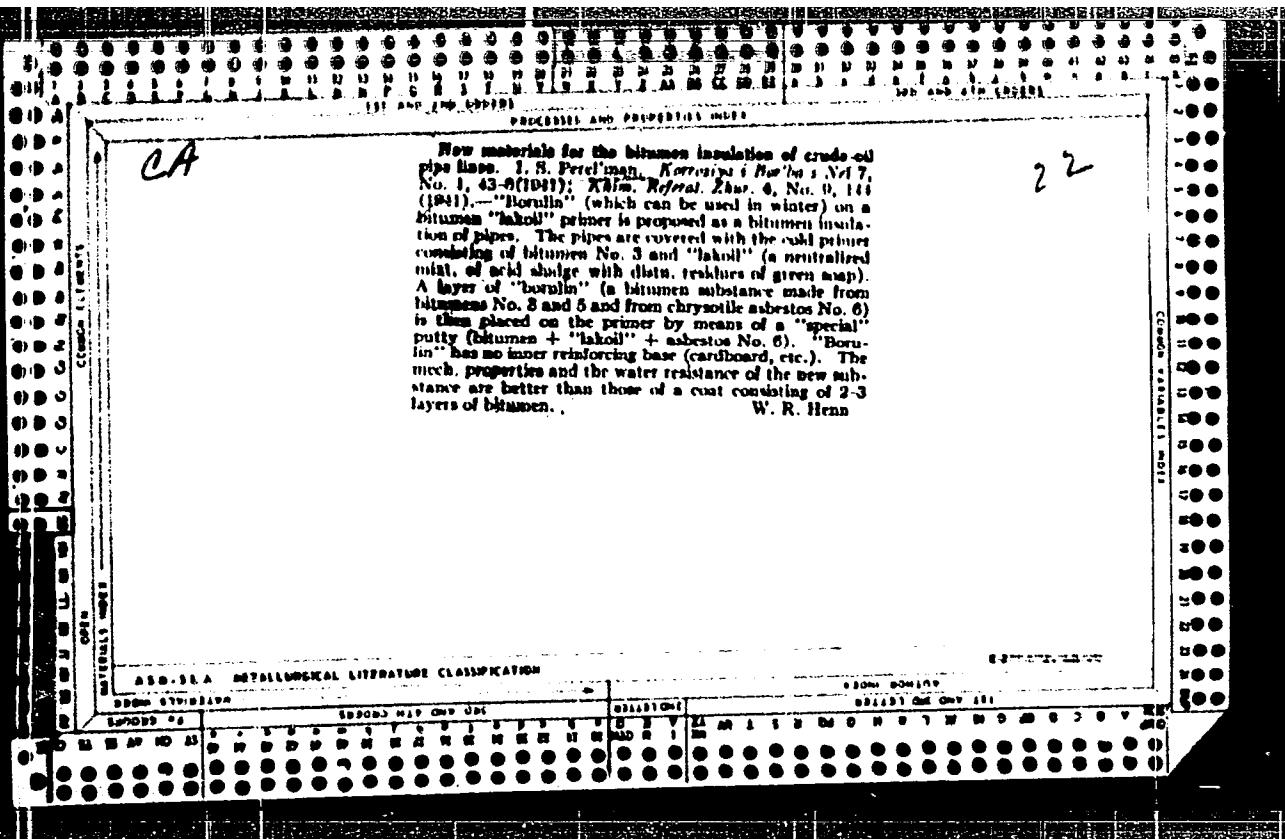
The wetting force in noncylindrical, nonhomogeneous pores and the problem of the unidirectional permeability of pores. I. M. Perelman. Doklady Akad. Nauk S.S.R., 55, 153-6 (1959). An attempt is made to find an approximate value of the degree to which the wetting force takes part in the variable permeability of the 2-sided permeable membrane for the same liquid. The form and heterogeneity of the pores, the effect of the capillarity on the wetting. A set of equations was developed that can be applied to the wetting of heterogeneous surfaces in general. L.R.L.

PEREL'MAN, I. M.

Permeability

Wetting power in a non-cylindrical non-uniform pore and problem of selective permeability of pores. Dokl. AN SSSR 85 no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 Unclassified



CA

The practice of insulating steel pipe lines against corrosion by the soil. I. S. Perelman. *Vodoprivodnaya i Sanit. Tsv.,* 16, No. 3, 53-6 (1941); *Chem. Zentral.* 1941, II, 2732; cf. C. A., 38, 1347. —Earlier practices are reviewed. For use in Russia at summer temps. below 16° a mixt. of bitumen softening at 70-80° (d. 1) with 15% kaolin or 10% asbestos is recommended. For summer temps. of 16-24° the same bitumen with 25% kaolin or 15% asbestos are recommended, while for summer temps. above 24° these same ratios are recommended but with a bitumen softening at 74-86° and of d. 1.25. For winter work

neither bitumen thinned with benzene or gasoline nor bitumen enamel (with the addn. of colloidal clay or alkali) can be used because these products are not sufficiently impervious to water. Satisfactory results are obtained with the so-called "adhesive mass," which is a 1:1 mixt. of bitumen with "Lackoil" (pyrolysis product of a petroleum fraction), as a ground coat with 1-4 coats of "Borulin" as a top coat. The latter is produced in the form of rolls (5000 × 750 × 5 mm.) from a 1:1 mixt. of bitumen and asbestos waste and has a softening point of not less than 150°. After 7 days' soaking in cold water it absorbs not more than 3% of water and in strips of 100 × 30 × 4 mm. the breaking load is not less than 20 kg. The brittleness is reduced by the addn. of certain admixts. (not named). It is also available in thinner sheets. These Borulin rolls are warmed to 60-70°, cut to the pipe measurements, coated on the inner side with the "adhesive mass" mentioned above to give a total thickness of 3.7 mm. and quickly applied to the pipe over a base coat of the same "adhesive mass" 0.7 mm. in thickness. Such insulation was successfully applied at a temp. of -15 to -20° to a section of Moscow water main 40-50 m. long (900 mm. in diam.). The "adhesive mass" with a top coat of bitumen enamel was also successfully applied in winter to mains (880 mm.) in diam. M. G. Moore

## ASD-3A METALLURGICAL LITERATURE CLASSIFICATION

1940-1945

1946-1950

1951-1955

1956-1960

1961-1965

1966-1970

1971-1975

1976-1980

1981-1985

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2000-2005

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PEREL'MAN L.

MOLCHANOV, A.; PEREL'MAN, L.; SOKOVNIN, M., otvetstvennyy redaktor;  
VARLAMOV, N., redaktor; DENISOVA, O., tekhnicheskiy redaktor.

[Short-time credit for contract construction organizations]  
Kratkosrochnoe kreditovanie podriadnykh stroitel'nykh  
organizatsii. Moskva, Gosfinisdat, 1954. 86 p. (MLRA 7:12)  
(Construction industry) (Credit)

PEREL'MAN, L.  
L. PEREL'MAN

N/5  
773.21  
.M71

MOLCHANOV, A KRATCOSROCHNOY KREDITOVANIYE PODRYADNYKH STROITEL'NYKH  
ORGANIZATSIIY (SHORT TERM CREDIT ON COMMERCIAL CONSTRUCTION, BY)  
A. MOLCHANOV (1) L. PEREL'MAN.

MOSKVA, GOSFINIZDAT, 1954. 86 p. TABLES.

POLISH TRANSLATION: KREDYTOWANIE KROTKOTERMINOWE PRZEDSIEBIORSTW  
BUDOWLANYCH.

LITVINENKO, L.M.; PEREL'MAN, L.A.

4,4'-Diphenyldicarboxylic acid. Metod.poluch.khim.reak.i prepar.  
(MIRA 17:4)  
no.4/5:137-139 '62.

1. Khar'kovskiy gosudarstvennyy universitet imeni Gor'kogo.

LITVINENKO, L.M.; PEREL'MAN, L.A.; LITVINENKO, M.M.

*L*-*Methoxy-4'*-aminobiphenyl. Metod.poluch.khim.reak.i prepar.  
no.4/5:128-132 '62. (MIRA 17:4)

1. Khar'kovskiy gosudarstvennyy universitet imeni Gor'kogo.

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4,4'-dinitrodiphenyldisulfide. Metod.poluch.khim.reak.i prepar.  
no.4/5:139-141 '62. (MIRA 17:4)

1. Khar'kovskiy gosudarstvennyy universitet imeni Gor'kogo.

LITVINENKO, L.M.; PEREL'MAN, L.A.; ZIKRANETS, V.M.

4,4'-bitolyl. Metod.poluch.khim.reak.i prepar. no.4/5:135-137  
'62. (MIRA 17:4)

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PEREL'MAN, L. B.

The simplest mechanotherapeutic arrangements to recover the functions of the extremities after traumatic injuries to the nervous system. Moskva, Medgiz. 1943. 15 p.

PEREL'MAN, L. B.

39634. PEREL'MAN, L. B. i KUPRIAN, A. I. Fredvaritel'nyye materialy k voprosu o funktsional'noy diagnostike i kompleksnoy terapii pri spinal'nykh neopriyatiyakh v residual'nom periode. V so: Nevrologiya voyen. vremeni. t. II, M., 1949, c. 75-88.

SO: Letopis' Zhurnal'nykh Statey, vol. 50, Moskva, 1949

PEREL'AM, I. S.

31. Nekotorye faktory v sisteme vosstanovitel'nikh meropriyatij. V so: Nevozim'skij, vol. 1. T. 1. L., 1948, c. 11-12

SO: Letopis' Zhurnal'nykh Statey, vol. 50, Moskva, 1949

PEREL'KIN, L. N.

319-2. PEREL'KIN, L. N. i S. V. TOLSTIKOV, ... et al. Vegetativnoe razvitiye  
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1960, c. 193-195.

SC: 'Letopis' Zhurnal'nykh Statey, Vol. 50, Moscow, 1969

PEREL'MAN, L.B.; CHLENOV, L.G.; SHERMAN, L.M.

Temporary ligation of the neuro-vascular bundle of the temporal region as  
a form of reflex therapy of central cerebral disorders in hypertension.  
Klin. med., Moskva 30 no.9:81-89 Sept 1852. (CML 23:2)  
1952

1. Doctor Medical Sciences for Perel'man; Professor for Chlenov. 2. Of  
the Institute of Neurology of the Academy of Medical Sciences USSR (Direc-  
tor -- Prof. N. V. Konovalov, Active Member AMS USSR).

PEREL'MAN, L. B.

Hypertension

Method of analysing the functional state of vaso-regulating mechanisms in hypertension.  
Zhur. nerv. i psikh. 52, No. 9, 1952.

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PEREL'MAN, L. B.

USSR/Medicine - Physiology

Can 1/1 Pub. 22 - 50/50

Authors : Grashchenkov, N. I., Memb. Corresp. Acad. of Sc., USSR.; Blyumenfeld, L. A., Drazovitskaya, S. E.; Perel'man, L. B.; and Smirnov, Yu. K.

Title : Oxygen consumption by tissues and functional state of hemoglobin during myasthenia

Periodical : Dok. AN SSSR 100/1, 191-192, Jun. 1, 1955

Abstract : An investigation was conducted to determine the effect of oxygen requirement of tissues on the functional state of hemoglobin during myasthenia. A thorough diagnosis of five myasthenic patients showed that hemoglobin plays a very important role in the regulation of the respiratory functions of the blood. It was established that myasthenia disturbs the trophic functions of the tissues which is expressed by reduced intensity of tissue respiration. Five USSR references (1946-1953). Table.

Institution : .....

Presented by: July 14, 1954

PEREL'MAN, L.B., MATLINA, E. Sh.

Effect on phosphocreatine synthesis of serum taken from myasthenic patients. [with summary in English]. Biul.eksp.biol. i med. 14 no.11:65-68 N'57  
(MIRA 11:11)

1. Iz nauchnoy gruppy individual'nykh rabot, rukovodimoy chlenom-korrespondentom AN SSSR N.I. Grashchenkovym. Predstavlena deyat'stel'nym chlenom AMN SSSR N.I. Grashchenkovym.

(MYASTHENIA GRAVIS, blood in,

eff. on phosphocreatine synthesis (Rus))

(GOENZYMES,

phosphocreatine synthesis, eff. of blood from myasthenic patients (Rus))

PEREL'MAN, I.B.; MATLINA, B.Sh.

Adrenergic substances in myasthenia. Biul. eksp. biol. i med. 46 no.11:  
46-50 N '58. (MIRA 12:1)

1. Gruppa individual'nykh rabot deystvitel'nogo chlena AMN SSSR N.I.  
Grashchenkova. Predstavlena deystvitel'nym chlenom AMN SSSR N.I. Grashchen-  
kovym.

(SYMPATHOMIMETICS, physiol.  
in myasthenia (Rus))  
(MYASTHENIA GRAVIS, physiol.  
sympathomimetics (Rus))

PEREL'MAN, I.B.; PRIKHOZHAN, V.M.; MATLINA, E.Sh.

Mechanism of the action of some anticholinesterase preparations. Biul. eksp. biol. i med. 53 no.5:76-80 My '62.  
(MIRA 15:7)

1. Iz laboratorii neyro-gumoral'noy reguliyatsii (zav. - chlen-korrespondent AN SSSR N.I. Grashchenkov) Instituta vysshey nervnoy deyatel'nosti AN SSSR i iz Kliniki nervnykh bolezney (zav. - prof. V.V. Mikheyev) i Moskovskogo meditsinskogo instituta, Moskva. Predstavlena deystvitel'nym chленом AMN SSSR S.Ye. Severinym.

(CHOLINESTERASES) (MYASTHENIA GRAVIS)

PEREL'MAN, A.B.; SMIROV, I. . SHTO. Leningrad.

Combination of myasthenia with exophthalmos and malignant exophthalmos. Zhur. nevrol. psich. 52 no. 4. 694-697 62  
(MIRA 15:6)

). Gruppa deystvital nogo chlada ANV SSSR N 1 Grashchenenkova  
pri Akademii meditsinskikh nauk SSSR. Vnukova nervnykh  
bolezney (dokl. na vsesoyuznoj konferentsii). Moskovskij univ.  
Izdatelstvo akademijskoj literatury po zdravookhraneniju.  
(MINISTERTSVA ZDRAVOKHRANENIJA SSSR) 1959 (1960).

PEREL'MAN, L.B.; SHTUL'MAN, D.R.; KOLOMENSKAYA, Ye.A.; SMIRNOV, Yu.K.;  
FISHMAN, M.N. (Moskva)

Ocular form of myasthenia gravis. Klin. med. 41 no.6:127-  
135 Je '63. (MIRA 17:1)

I. Iz laboratorii klinicheskoy neyrofiziologii (rukododitel' -  
prof. N.I. Grashchenkov) AMN SSSR i kliniki nervnykh bolezney  
(dir. V.V. Mikheyev) I Moskovskogo meditsinskogo instituta  
imeni I.M. Sechenova.

GRASHCHENKOV, N. I.; PEREL'MAN, L. B.

"Some aspects of Myasthenia Gravis."

report submitted for 3rd Intl Symp, Myasthenia, New York, 1-3 Feb 61.

Moscow Univ.

PERELMAN, L. I.

AID P - 1941

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 21/31

Author : Perel'man, L. I., Eng.

Title : Automatic starting of low capacity d-c motors

Periodical : Energetik, 3, 26-27, Mr 1955

Abstract : The plant producing 0.9-kw, 110-v, 350/l,450-rpm motors of the PN-85 type supplies them with a d-c 11/6-a motor starting rheostat of the RP-2511 type. The starting wiring diagram of this rheostat has, however, a major deficiency consisting in the lack of provision for automatic reclosure in case of disconnection due to voltage drop. Such an automatic reclosure was provided at the author's electric power station. A description of the device is given. Two diagrams.

Institution: None

Submitted : No date

PUCHKOVSKIY, N.V., kand. tekhn. nauk; NEKRASH, N.L., kand. ekon. nauk;  
PEREL'MAN, L.I., inzh.; BAL'MAKOVA, I.K.

Payment only for the finished building is a progressive  
form of settlement in the construction industry. Biul. tekhn.  
inform. po stroi. 5 no.4:13-15 Ap '59. (MIRA 12:8)  
(Construction industry--Accounting)

~~PEREL'MAN, L.I., inshener.~~

Automatic starting of a small direct current electric motor.  
Energetik 3 no.3:26-27 Mr '55. (MLRA 8:2)  
(Electric motors, Direct current)

1. MOLCHANOV, A. N., PEREL'MAN, L. I.
2. USSR (600)
4. Construction Industry - Finance
7. "Accounting on a commercial basis in construction and bank control." Reviewed by M. Sokovnin. Fin. i kred. SSSR No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

PEREL' MAN, L.L.

AID P - 2915

Subject : USSR/Electricity

Card 1/2 Pub. 26 - 12/52

Authors : Motovilov, V. V., Kand. Tech. Sci., Kuybyshev Industrial Institute im. Kuybyshev; B. S. Uspenskiy, Kand. Tech. Sci, Moscow Power Institute im. Molotov; M. Yu. Rozenfayn, Eng., Ukrainian State Institute for Planning of Mining; V. I. Chernyshevich, Eng., Dnepr Power System; S. A. Kudryashov, Eng., Kuybyshev "Elektroproyekt"; L. Ya. Rozenshteyn, Eng., "Promenergoprojekt"; and L. L. Perel'man, Eng., Kiev Construction in the Case Industry

Title : Discussions; On the arrangement of electrical equipment in the main building of small and medium-size electric power plants

Periodical : Elek. sta.<sup>26</sup>, 7, 40-44, Jl 1955

Abstract : The layout and arrangement of equipment at power plants are discussed in a series of articles by the authors listed above. The question of an efficient distribution with possible savings in material of electrical equipment

1 of 2

Elek. sta., 7, 40-44, Jl 1955

Card 2/2 Pub. 26 - 12/32

is considered in detail. A reduction in the powerhouse volume is recommended. However, more research should be done before a standard design for layouts can be accepted. The problem of changing solenoid mechanisms over to springs need more study. Three diagrams.

Institution : None

Submitted : No date

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PEREL'MAN, L.M., kandidat tekhnicheskikh nauk.

General mechanization of earthwork in building railroad roadbeds.  
Trudy TSNIIS no.22:5-152 '56. (MIRA 10:6)  
(Railroads--Earthwork)

PEREL'MAN, L.M.

SOKOLOV, K.M.; YEVSTAFYEV, S.V.; ROSTOTSKIY, V.K.; STANKOVSKIY, A.P.;  
VAZENIK, Ye.I.; ONUPRIYEV, I.A.; SVESHNIKOV, I.P.; UKHOV, B.S.;  
RAUMAN, V.A.; BARSOV, I.P.; BASHINSKIY, S.V.; BOJKO, A.G.; VALUTSKIY,  
I.I.; ZAPOL'SKIY, V.P.; ZOTOV, V.P.; IVALOV, V.A.; LAZARIKOV, V.N.;  
LEVII, S.S.; MAILOLETKOV, Ye.K.; MERENKOV, A.S.; MIROPOL'SKAYA, N.K.;  
OSIPOV, L.G.; PEREL'MAN, L.M.; PETROV, G.D.; PETROV, N.M.; POLYAKOV,  
V.I.; VATSSLAVSKAYA, L.Ya.; VAKHRAMEYEV, S.A.; VERZHITSKIY, A.M.;  
VIASOV, P.A.; VOL'FSOHN, A.V.; VOSHCHININ, A.I.; DZHUMIOVSKIY, N.N.;  
DOMBROVSKIY, N.G.; YEPIPANOV, S.P.; YEFREMENKO, V.P.; ZELICHENOK, O.G.;  
ZIMIN, P.A.; POPOVA, N.T.; ROGOVSKIY, L.V.; REBROV, A.S.; SAPRYKIN, V.A.;  
SOVALOV, I.G.; SOSHIN, A.V.; STARUKHIN, N.M.; SURSHYAN, O.S.; TOLORAYA,  
D.F.; TROITSKIY, Kh.L.; TUSHNYAKOV, M.D.; FROLOV, P.T.; TSIRKUNOV, I.P.

Andrei Vladimirovich Konorov; obituary. Mekh. stroi. 16 no.1:32 Ja  
'59. (MIRA 12:1)

(Konorov, Andrei Vladimirovich, 1890-1958)

SHADRIN, Nikolay Aleksandrovich, prof.; PERKL'MAN, Lev Moiseyevich,  
dotsent; BEPHEV, Andrey Ivanovich, dotsent; SMAGIN, Ivan Serge-  
yevich, dotsent; UL'RICH, Sergey Sergoyevich, dotsent. Prinimali  
uchastiye: KHACHATUROV, R.A., dotsent; SHURGIN, V.P., kand.tekhn.  
nauk; MOZES, B.N., inzh.; ALEKSEYEV, V.N., ekonomist. GRINEVSKIY,  
I.A., inzh., red.; KHITROV, P.A., tekhn.red.

[Railroad construction] Stroitel'stvo zheleznykh dorog. Pod red.  
N.A.Shadrina. Moscow, Vses.izdatel'sko-poligr.ob"edinenie M-va  
putei scobshcheniya, 1960. 344 p. (MIRA 13:9)  
(Railroads--Construction)

PEREL'MAN, L.N., kand.tekhn.nauk

The necessity of improving railroad construction techniques and mechanization. Trudy MIEI no.15:300-301 '61. (MRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva Ministerstva transportnogo stroitel'stva SSSR.

(Railroads---Construction)

PERELMAN, I.M., prof.

ways of memorizing the construction of the beds in mountainous areas. Transp. struk. 13 m. 186-3 Ja '63  
(CIRK 18:2)

PEREL'IMAK, I.M., prof.

Preparing the route for the construction of railroads in  
swampy forest areas. Transp. stroi. 15 no.1:5-7 Ja '65.  
(MIRA 18:3)

PEREL'MAN, L. R.

25901 Perel'man, L. R. Gumoral'nyye Mekhanizmy Tuberkulesnoy Allergii.  
Po Opytam Na Parabiozirovannykh Krolikakh. V SB: Voprosy Allergii I  
Immuniteata Pri Tuberkuleze. L., 1948, S. 52-65

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

PEREL'MAN, L. R.

27897

Khronicheskiy Parabioticheskiy Anastomoz, Vego Znacheniye V Normal'noy i Patologicheskoy Fiziologii. Trudy Leningr. San.-Gigien. Med. in-ta, T. II, 1949, s. 57-70

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

PEREL'MAN, I.R., professor, zaviduvach.

Neuromuscular apparatus of the lungs and its role in pathology. Medych. zhur.  
21 no.4:62-69 '51.

1. Kafedra patofisiologichiyi Leninhads'koho 2-ho medychnoho instytutu.  
(lungs)

PEREL'MAN, L.P.  
USSR/Medicine - Physiology

FD-945

Card 1/1 Pub. 33-28/29

Author : Perel'man, L. P. (Leningrad) and Ushanskiy, Ya. G. (Sverdlovsk)  
Title : From letters to the editor. In reference to T. M. Turpayev's article  
"Method of recording the tonus of bronchial musculature"  
Periodical : Fiziol. zhur. 40, 387-388, May/Jun 1954  
Abstract : T. M. Turpayev's method of recording the tonus of bronchial musculature is criticized by the authors of this article. They claim that Turpayev seemed to have ignored the accepted concept about the active tonus of the lungs. The method described by T. M. Turpayev may be successfully used provided it is borne in mind that not only the tonus of the bronchial muscles is recorded, but also the active tonus of the lungs. The instrument for recording the tonus of bronchial musculature was described by T. M. Turpayev in his article published in Fiziol. zhur., 39, 732, 1953. The principles used were based on the methods developed by Konzett and Rossler.  
Institution : --  
Submitted : --

1. KRUMGAL'Z, R., PEREL'VAN, L.
2. USSR (60C)
4. Construction Industry - Finance
7. Refundable sums in construction estimates, Fin. i kred. SSSR No. 3, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

PEREL'MAN, L.S., inzhener.

On A.Sh.Fridliand's article, "Automatic reclosing with synchronization and control of counter voltage." Elek.sta.27 no.1:57 Ja '56.  
(Electric relays) (MLRA 9:6)

PEREL'MAN, L.S., inzhener.

Formula for calculating the capacity of capacitors controlling  
multifrequency line traps. Elek.sta. 28 no.8:36 Ag '57.  
(MIRA 10:10)

(Electric lines)

PEREL'MAN, L.S., inzh.

Interlocking protective devices of types PZ-156 and PZ-157 during  
breaks in the three phases of voltage circuits. Elek.sta. 29 no.6:  
57-58 Je '58. (MIRA 11:9)  
(Electric switchgear)

KHOMERIKI, G.V.; PEREL'MAN, L.S., red.; KHOKHIASHVILI, Sh.T., tekhn.  
red.

[Current problems in developing the economic aspects of industry in  
the Georgian S.S.R.] Nekotorye aktual'nye voprosy razvitiia ekonomiki  
promyshlennosti Gruzinskoi SSR. Tbilisi, TsK KP Gruzii, 1961. 122 p.  
(MIRA 14:8)

(Georgia--Industries)

PEREL'MAN, L.S.; SOKHRANSKIY, A.S.

Comparative measurements of radio interference generated by an experimental overhead power transmission line carrying d.c. and a.c. power. Izv. NIIPT no.9:133-143 '62. (MIRA 15:12)  
(Electric lines—Overhead) (Radio—Interference)

KOSTENKO, M.V. (Leningrad); PEREL'MAN, L.S. (Leningrad)

Approximate account of "ideally" grounded wires in the calculation of traveling wave transients of overhead power transmission lines. Elektrichestvo no.1:52-54 Ja '63. (MIRA 16:2)

1. Chlen-korrespondent AN SSSR (for Kostenko).  
(Electric lines--Overhead) (Transients (Electricity))

KOSTENKO, M.V. (Leningrad); PEREL'MAN, L.S. (Leningrad)

Calculation of wave processes in multiwire lines. Izv. AN  
SSSR. Energ. i transp. no.6:721-730 N-D '63.  
(MIRA 17:1)

PEREL'MAN, L.S., inzh.

Parameters of the wave channels of a three-wire line with insulated  
guard wires. Elek. sta. 36 no.7:65-67 J1 '64.  
(MTRA 17:11)

FEREL'MAN, L.S. (Leningrad)

Methods for calculating radio interference due to corona on  
electric power transmission lines. Elektrichestvo no.10:  
57-62 O '64. (MIRA 17,12)

1. Nauchno-issledovatel'skiy institut postoyannogo toka.